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YZ Sun, PYS Cheung, XL Lin - IEEE Transactions on Parallel and Distributed Systems, 2001 - hub.hku.hk

... free efficient barrier operations on wormhole networks in [8]. A multideestination

worm is a message that carries multiple destination addresses so that it can ...

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S Oral, A George - Local Computer Networks, 2002. Proceedings. LCN 2002. 27th ... , 2002 - ieexplore.ieee.org

... same time. A worm that contains multiple destination addresses in its header

is the basis for path-based communication. When a destination ...

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### Should scalable parallel computers support efficient hardware multicast?- ► psu.edu (PDF)

LM Ni - Proceedings of the 1995 International Conference on Parallel ... , 1995 - books.google.com

... 4.3 Asynchronous Multi-head Worm In asynchronous multi-head worm, each branch ... Headers

A multicast message has to carry the multiple- destination information in ...

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A George, S Oral - 2002 - Storming Media

... same time. A worm that contains multiple destination addresses in its header

is the basis for path-based communication. When a destination ...

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### [CITATION] LAYERED MULTI-USER CRYPTOSYSTEMS by

ME Spencer, SE Tavares - Canadian Communications & Energy Conference:[papers]=: ... , 1982 - Institute of Electrical and Electronics Engineers

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### Performance evaluation of cache depot on CC-NUMA multiprocessors- ► psu.edu (PDF)

HC Hsiao, CT King - Parallel and Distributed Systems, 1998. Proceedings., 1998 ... , 1998 - ieexplore.ieee.org

... A multi-hop worm is similar to a multideestination worm for multicasting in that

both carry multiple destination addresses in their header and they are routed ...

Cited by 1 - Related articles - Web Search - All 12 versions

### Designing tree-based barrier synchronization on 2d mesh networks

CT Jenq-Shyan - 1998 - doi.ieeecomputersociety.org

... A multideestination worm is a message which carries multiple destination addresses

so that it can be sent to multiple nodes with a single startup delay. ...

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### Efficient barrier synchronization in wormhole-routed mesh networks supporting turn model

KP Fan, CT King - Parallel Computing, 1998 - Elsevier

... The basic concept of multideestination messaging is to carry multiple destination addresses in a ... In step 1, a gather worm is initiated by the rightmost member ...

Related articles - Web Search - All 4 versions

[\[PDF\]](#) ► **Real-Time Detection of Hidden Traffic Patterns**

FHMKT V Lakshman - International Conference on Network Protocols: Proceedings, 1993 - ieee-icnp.org  
... may not reveal a possible on-going DoS attack since such attack may consist ... An example  
is a router processing arrivals for **multiple destination IP-addresses**. ...

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**Turn grouping for efficient barrier synchronization in wormhole mesh networks- ► nthu.edu.tw**

[\[PDF\]](#)

KP Fan, CT Lin - Parallel Processing, 1997., Proceedings of the 1997 ..., 1997 - ieeexplore.ieee.org  
... concept of **multidestination messaging** is to carry **multiple destination addresses**  
in a ... types of synchronization messages, reduction **worm**, distribution **worm** ...

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S Jiang, NH Vaidya, W Zhao - MILCOM, 2001 - cs.tamu.edu  
... seed material carried by Mix Request is designed to fight against replay **attack**. ...  
Recall that **multiple Destination Queries** may be triggered by same Mix Request ...  
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**MICA: a memory and interconnect simulation environment for cache-based architectures- ► nthu.edu.tw** [\[PDF\]](#)

HC Hsiao, CT King - Simulation Symposium, 2000.(SS 2000) Proceedings. 33rd ..., 2000 - ieeexplore.ieee.org  
... The replica- tion is based on the **multiple destination addresses** carried in the  
message header. ... A communication thread de- notes a message **worm**. ...  
Cited by 13 - Related articles - Web Search - BL Direct - All 14 versions

**Method and system for sending data between computers using a secure pipeline**

TJ Schwab, HD Steinberg, EL Franklin - US Patent App. 09/790,647, 2001 - Google Patents  
... world. Such a physical "air gap" between the sensitive data and the outside  
world completely prevents computer **attack** or invasion. ...

Related articles - Web Search - All 4 versions

**Exploiting Network Locality for CC-NUMA Multiprocessors- ► 140.116.245.208** [\[PDF\]](#)

HC Hsiao, CT King - The Journal of Supercomputing, 2001 - Springer  
... the **multiple destination addresses** carried in the message header. With this hardware  
capability, the sender only has to send one multidestination **worm** to reach ...  
Cited by 2 - Related articles - Web Search - BL Direct - All 10 versions

**The group security association for secure multicasting**

W Park, J Nah, S Sohn, D Kim - Ninth IEEE International Conference on Networks, 2001. .... 2001 -  
ieeexplore.ieee.org  
... for multicast traffic, there are **multiple destination** systems per multicast group. ...  
exchange mechanisms, protection against the denial-of-service **attack** uses a ...  
Related articles - Web Search - All 3 versions

**SOS: Secure overlay services- ► utd.edu** [\[PDF\]](#)

AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ..., 2002 -  
portal.acm.org  
... a breach in communication that is the re- sult of an **attack** that shuts ... **Multiple**  
**destination** nodes for a given identifier can be created by using different hash ...  
Cited by 357 - Related articles - Web Search - BL Direct - All 50 versions

[PDF] ► Bro: A system for detecting network intruders in real-time

V Paxson - Comput. Networks, 1999 - cs.jhu.edu

... that do what Bro does, generally with much more sophisticated interfaces and management soft-ware [In99, To99, Ci99], & larger "attack signature" li ...

Cited by 1063 - Related articles - View as HTML - Web Search - All 111 versions

Russell JF Fang COMSAT Laboratories, Clarksburg, MD, 20734 USA

AOFCT TO - New Concepts in Multi-User Communication, 1981 - books.google.com

... and this system appears to be secure against known plaintext **attack** ... Hi DECONCATENATOR

Figure 6. Simplified block diagram of a **multiple-destination** cryptosystem ...

Related articles - Web Search

Optimal congestion control in single destination networks

G Stassinopoulos, P Konstantopoulos - Communications, IEEE Transactions on [legacy, pre-1988], 1985 -

ieeexplore.ieee.org

... ever, that the geometrical properties of the state velocity set and its interpretations, given in the paper, are of considerable value for the **attack** of these ...

Cited by 18 - Related articles - Web Search - All 3 versions

File archival

RH Sathyaranayanan - US Patent App. 09/834,833, 2001 - Google Patents

... imple-mentation, there can be multiple source directories and **multiple destination** directories ... mentation process, or in a process that performs **virus** checks as ...

Web Search - All 7 versions

Smart allocation of bandwidth for multiple independent calls on a digital network

NI Malik - US Patent 6,496,504, 2002 - Google Patents

Page 1. US006496504B1 (12) United States Patent Malik (io) Patent No.: US 6,496,504 B1 (45) Date of Patent: \*Dec. 17,2002 (54) SMART ...

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Method and apparatus for providing user authentication using a back channel

RJ Vanderveest, KT Simzer, ER Skinner - US Patent App. 09/855,183, 2001 - Google Patents

... However, some such systems can be vulnerable to **attack** ... For example, a user may have **multiple destination** units such as a radiotelephone, pager, or multiple ...

Web Search - All 2 versions

Packaging of GaAs signal processors on multichip modules

BK Gilbert, GW Pan, M Found, MN Rochester - IEEE Transactions on Components, Hybrids, and Manufacturing ... 1992 - ieeexplore.ieee.org

... polyamic acid during the cure process, which in turn can **attack** the metal ... if transmission line TAB leads are provided, in a **multiple destination** signal net ...

Cited by 7 - Related articles - Web Search - All 2 versions

Method and system for virtual addressing in a communications network

MS Foster, MA Dorsett - US Patent App. 10/062,199, 2001 - Google Patents

Page 1. US 20020159452A1 (19) United States (12) Patent Application Publication (io> Pub. NO.: US 2002/0159452 Al Foster et al. (43) Pub. Date: Oct. ...

Related articles - Web Search - All 6 versions

[PDF] ► IP filter based firewalls howto

B Conoboy, E Fichtner - IPFilter Project, Mar, 2000 - coffeeinix.net

... To do otherwise opens the internal network for a **smurf attack**. These two lines would prevent our hypothetical network from being used as a **smurf relay**: ...

Cited by 8 - Related articles - View as HTML - Web Search - All 65 versions

A bandwidth-efficient implementation of mesh with multiplebroadcasting- ► [kaist.ac.kr](#) (PDF)  
JH Choi, BW Kim, KH Park, KI Park - Parallel Processing, 1999. Proceedings. 1999 International ... 1999 - [ieeexplore.ieee.org](#)  
... bus, those nodes on the mesh that are not neighbors can communicate directly and a source node can communicate with **multiple destination** nodes simultaneously ...  
Cited by 4 - Related articles - Web Search - BL Direct - All 7 versions

[book] Jxta: Java P2P Programming- ► [parma.ru](#) (PDF)

D Brookshier, D Brookshier - 2002 - books.google.com

Page 1. Daniel Brookshier Darren Covoni Navaneeth Krishnan FOREWORD BY JUAN CARLOS SOTO, GROUP MARKETING MANAGER FOR PROJECT JXTA SAMS 'W-J Page 2. What is JXTA ...  
Cited by 109 - Related articles - Web Search - Library Search - All 15 versions

### Variable threshold receiver

TE Barclay, JA Zett - US Patent 4,516,248, 1985 - Google Patents

... by tracking the average of the peak signal levels of the received signal, eliminating the need for a lengthy preamble to compensate for receiver attack time. ...

Cited by 2 - Related articles - Web Search - All 2 versions

[book] BGP: Building reliable networks with the border gateway protocol

I Van Beijnum - 2002 - books.google.com

... or rather the ARPANET, which is regarded as the origin of today's Internet—was invented by the military as a network that could withstand a nuclear attack. ...

Cited by 26 - Related articles - Web Search - Library Search - All 2 versions

### Optimized broadcasting and multicasting protocols in cut-throughrouted networks- ► [psu.edu](#)

[PDF]

J Cohen, P Fraigniaud, J Konig, A Raspaud - IEEE Transactions on Parallel and Distributed Systems, 1998 - [ieeexplore.ieee.org](#)

... In worm-hole routing, a message is decomposed in small units ... This hypothesis assumes that a message header can contain **multiple destination addresses** and the ...

Cited by 15 - Related articles - Web Search - BL Direct - All 11 versions

[PDF] ► Congress: CONnection-oriented Group-address RESolution Service

A Tai - 1998 - Citeseer

... ATM connections is the point-to-multipoint connection, which connects a single source end-system (known as the root node) to **multiple destination** end-systems ...

Related articles - View as HTML - Web Search - All 5 versions

[PDF] ► Synthesis of Parallel Hardware Implementations from Synchronous Dataflow Graph Specifications by ...

EA Lee - 1998 - [ptolemy.eecs.berkeley.edu](#)

Page 1. Synthesis of Parallel Hardware Implementations from Synchronous Dataflow Graph Specifications by Michael Cameron Williamson ...

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System for translation and communication of messaging protocols into a common protocol

JE Lewis, DT Lai, SJ Richardson, RMK Tam, J ... - US Patent App. 10/299,550, 2002 - Google Patents

Page 1. US 20030101283A1 (19) United States (12) Patent Application Publication

(10) Pub. No.: US 2003/0101283 A1 Lewis et al. (43) Pub. ...

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### Baseband Signal Processing

E Saggese - Satellite Communication Systems Design, 1993 - books.google.com

Page 99. Baseband Signal Processing E. Saggese I. Introduction 3 This chapter

is devoted to operations performed on the baseband ...

Related articles - Web Search

### Method and apparatus for expanding data rate in an ISDN communication system

NI Malik - US Patent 6,081,841, 2000 - Google Patents

Page 1. United States Patent Malik US006081841A [ii] Patent Number: [45]

Date of Patent: 6,081,841 Jun. 27, 2000 [54] METHOD AND ...

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### The LHAM log-structured history data access method- ► psu.edu [pdf]

P Muth, P O'Neill, A Pick, G Weikum - The VLDB Journal The International Journal on Very Large ..., 2000 - Springer

... The exception from this rule are components that may reside on archive media such as tapes or **WORM** units; these components are formed based on a redundant ...

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### Methods and systems for tracking and playing back errors in a communications network

J McNamara - US Patent App. 10/299,549, 2002 - Google Patents

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### System and method for providing message notification

JE Lewis - US Patent App. 10/299,551, 2002 - Google Patents

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### System and method for password protecting a distribution list

JE Lewis - US Patent App. 10/299,934, 2002 - Google Patents

Page 1. US 20030097597A1 (19) United States (12) Patent Application

Publication (io> Pub. NO.: US 2003/0097597 Al Lewis (43) Pub. ...

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### OVERHEAD LIFTING CRANES, HOISTS, AND MONORAILS

L FEIT, JD MITCHELL - Materials Handling Handbook, 1985 - books.google.com

... It is therefore necessary to provide curves in the monorail system; and where **multiple destination** points are involved, it becomes necessary to provide the ...

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### Distributed internet multicast system for the stock market

NF Maxemchuk, DH Shur - US Patent App. 09/794,112, 2001 - Google Patents

Page 1. US 20020120837A1 (19) United States (12) Patent Application Publication

(io> Pub. NO.: US 2002/0120837 Al Maxemchuk et al. (43) Pub. Date: Aug. ...

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### Communicating data through a network

MS Foster, MA Dorsert - US Patent App. 10/126,489, 2002 - Google Patents

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### [book] LAN technologies explained

P Miller, M Cummins - 2000 - books.google.com

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[PDF] ► [Commercial electronic publishing over open networks: a global approach based on mobile objects \(...](#)

JH Morin - 1999 - cui.unige.ch

... of our work. However, we find it useful, to put our work into context and define our angle of **attack** on the domain. We have found ...

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Key authors: **L Ni - D Brookshier - A Keromytis - V Paxson - V Misra**

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### SOS: Secure overlay services- ► [utd.edu](#) [PDF]

AD Keromytis, V Misra, D Rubenstein - Proceedings of the 2002 conference on Applications, ... , 2002 - [portal.acm.org](#)

... µ overlay hops. **Multiple destination** nodes for a given identifier can be created by using different hash functions. In addi- tion ...

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### System for translation and communication of messaging protocols into a common protocol

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P Muth, P O'Neil, A Pick, G Weikum - The VLDB Journal The International Journal on Very Large ..., 2000 - Springer

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**A distributed intrusion detection system based on Bayesian alarm networks**

D Bulatovic, D Velasevic - Lecture Notes in Computer Science, 1999 - Springer  
 ... for example denial of service, virus, **worm** or privacy ... this context, every agent would try to detect anomalous intrusions in a **computer** system under ...

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**[PDF] ▶ A method to detect intrusive activity in a networked environment**

LT Heberlein, KN Levitt, B Mukherjee - Proceedings of the 14th National Computer Security ..., 1991 - netsq.com  
 ... **Worms**, and Viruses ... 13th National Computer Security Conference, pp ... 7. LT Heberlein, "Towards Detecting Intrusions in a networked Environment," Technical Report ...

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**An attack signature model to computer security intrusion detection**

AM Cansian, ARA da Silva, M de Souza - MILCOM 2002, Proceedings, 2002 - ieeexplore.ieee.org  
 ... bugs, used in the Internet **Worm** attack [3] ... unacceptable behavior and attempts to **detect** its occurrence ... of misuse behavior against **computer** network environments ...

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**Using Relational Schemata in a Computer Immune System to Detect Multiple-Packet Network Intrusions**

JL Bebo - 2002 - Storming Media  
 ... 5.7.4 Fruit With **Worms** ... One area of research that holds much promise in **detecting** ... is the use of an Artificial Immune System (AIS) or **Computer** Immune System ...

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**Digging for worms, fishing for answers**

F Buchholz, TE Daniels, JP Early, R Gopalakrishna, ... - Computer Security Applications Conference, 2002. Proceedings ... 2002 - ieeexplore.ieee.org  
 ... Proceedings of the 18th Annual Computer Security Applications ... being put into stopping **worms** today focuses on ... intrusion detection systems can **detect** attempts to ...

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**[book] Computer intrusion detection and network monitoring: a statistical viewpoint- ▶ jhu.edu**

[PDF]  
 DJ Marchette - 2001 - books.google.com  
 ... Computer professionals with a knowledge of basic net ... the approaches to **detecting** these and other attacks ... The final section covers viruses, **worms**, and other types ...

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**Method and apparatus for providing node security in a router of a packet network**

VM Patel, JP Dorenbosch - US Patent App. 09/976,516, 2001 - Google Patents  
 ... for example, a workstation, a personal **computer**, or a ... security program 214 uses to detect harmful data ... potential presence of known viruses, **worms**, Trojan horses ...  
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A network security monitor- ► ucdavis.edu [PDF]

LT Heberlein, GV Dias, KN Levitt, B Mukherjee, J ... - 1990 IEEE Computer Society Symposium on Research in Security ..., 1990 - ieeexplore.ieee.org

... a hostile program or a hu- man sitting at a computer. ... a simple node going down to a network worm, can be ... be sure with a high probability of detecting an attack ...

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(PDF) ► An Intrusion Detection Scheme Utilizing Teiresias to Determine a Computer's DNA Sequence ...

S Hu - 2002 - stu.ca

... of such an attack was the use of the Notepad Worm that is ... False Positives Attacks Detect (out of 10) ... A port can be seen as a door into a computer system and ...

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The architecture of a network level intrusion detection system

R Heady, G Luger, A Maccabe, M Servilia - 1990 - osli.gov

... Luger Arthur Maccabe Mark Servilia Department of Computer Science University ... the possibility of using this technology to detect and react to worm programs ...

Cited by 196 - Related articles - Web Search - Library Search

Fuzzy network profiling for intrusion detection- ► psu.edu [PDF]

JE Dickerson, JA Dickerson - Fuzzy Information Processing Society, 2000. NAFIPS. 19th ..., 2000 - ieeexplore.ieee.org

... The tall, worm-like structures indicate regular network connections. ... in a rule set for detecting suspicious connections ... an NDC ran on the same computer as an ...

Cited by 123 - Related articles - Web Search - Library Search - All 14 versions

Case study: Interactive visualization for internet security- ► psu.edu [PDF]

ST Teoh, KL Ma, SF Wu, X Zhao - Proceedings of the conference on Visualization'02, 2002 - portal.acm.org

... The brown lines in Figure 6 show all the routes to IP prefix 55/8 within a minute during the Nimda worm attack in ... Detecting intruders in computer systems. ...

Cited by 45 - Related articles - Web Search - All 16 versions

Detecting dissemination of malicious programs

CD Jeffries, CS Lingafelt, NC Strole - US Patent App. 10/120,705, 2002 - Google Patents

... 11, 2002 A method, system and computer program product ... By detecting random destination IP addresses, the ... of a malicious program, e.g., virus, worm program, may ...

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The SP1 high-performance switch- ► ibm.com [PDF]

CB Stunkel, DG Shea, DG Grice, PH Hochschild, M ... - Scalable High-Performance Computing Conference, 1994., ... 1994 - ieeexplore.ieee.org

... The 0-0 and 1-1 en- codings are invalid to detect token errors. ... A packet contains no route flits when it reaches its destination. ...

Cited by 304 - Related articles - Web Search - Library Search - BL Direct - All 7 versions

User-level network interface protocols- ► psu.edu [PDF]

RAF Bhoedjang, T Ruhl, HE Bal - Computer, 1998 - ieeexplore.ieee.org

... 56 Computer ... While simple, polling is not always the most efficient method to detect incoming packets ... the type of host CPU, the DMA engine, and the packet size. ...

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(PDF) ► Self-Securing Network Interfaces: What, Why and How?

... -MELLON UNIV PITTSBURGH PA SCHOOL OF COMPUTER ... - 2002 - ece.cmu.edu

... used to break into computer systems over ... Specifically, these worms spread exponentially

by having ... NILs offer exciting possibilities for **detecting** and containing ...

Cited by 28 - Related articles - View as HTML - Web Search - Library Search - All 18 versions

### Specialized hardware for deep network packet filtering

YH Cho, S Navab, WH Mangione-Smith - Lecture Notes in Computer Science, 2002 - Springer

... as computer networks grow faster, it becomes easier for the ... that is used by Snort to detect one type ... CERT Advisory CA-2001-19 Code Red Worm Exploiting Buffer ...

Cited by 98 - Related articles - Web Search - Bl. Direct - All 13 versions

### Hierarchical event monitoring and analysis

PA Porras, A Valdes - US Patent 6,484,203, 2002 - Google Patents

... an enterprise network, the net-work monitors **detecting** suspicious network ... 6 is a diagram of a computer platform suitable for ... eg, the spreading of a worm or a ...

Cited by 8 - Related articles - Web Search - All 2 versions

### System and method for the detection of and reaction to computer hacker denial of service attacks

RM Silverman - US Patent App. 09/945,172, 2001 - Google Patents

... relates to monitoring and analyzing a communications network for the purpose of detecting "hacker" attacks ... Although computer viruses, worms, and other so ...

Web Search - All 3 versions

### Security for the Internet Protocol

RJ Atkinson - 1995 - Storming Media

... to mean that the receiver can **detect** improper modification ... was the now infamous "Internet Worm" that exploited ... a manner friendly to modern computer processors. ...

Cited by 555 - Related articles - Web Search - Library Search - All 4 versions

### Fast barrier synchronization in wormhole k-ary n-cube networks with multideestination worms-

► psu.edu [PDF]

DK Panda - ... on High-Performance Computer Architecture, 1995. Proceedings ..., 1995 - ieeexplore.ieee.org ... of Computer and Information Science The Ohio State University ... state' or 'busy loop-ing' to detect this signal. ... a barrier z using gather and broadcasting worms. ...

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### Practical multicasting on a nonbroadcast subnetwerk- ► ieee-icnp.org [PDF]

S Walton, M Gerla - Network Protocols, 1997. Proceedings., 1997 International ..., 1997 - ieeexplore.ieee.org

... Simon Walton and Mario Gerla Computer Science Dept., University ... output port is not available, the worm is blocked ... Also, the routing daemon will **detect** when the ...

Cited by 1 - Related articles - Web Search - All 7 versions

### Change detection algorithms for information assurance of computer networks

AA Cardenas - 2002 - Storming Media

... As our reliance on computer networks grows, the ... of active worms through the Internet, distributed ... baseline for **detecting** abnormalities generated by intrusions ...

Cited by 1 - Related articles - Web Search - Library Search - All 4 versions

### Accurate buffer overflow detection via abstract payload execution

T Toth, C Kruegel - Lecture notes in computer science, 2002 - Springer

... audience due to the Morris Internet worm [21] in ... based network sensors neglect the packet payload and ... These systems are capable of **detecting** buffer overflows ...

Cited by 101 - Related articles - Web Search - Bl. Direct - All 5 versions

### A necessary and sufficient condition for deadlock-free routing in cut-through and store-and-

forward ...

J Duato - IEEE Transactions on Parallel and Distributed Systems, 1996 - ieeexplore.ieee.org  
... veloped for store-and-forward computer networks ... communications [24], [35] and in  
worm- hole switching ... routing subfunction some dependencies are easy to detect. ...

Cited by 73 - Related articles - Web Search - BL Direct - All 10 versions

[PDF] ► **Distributed metastasis: a computer network penetration methodology**

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... an attacker attempts to penetrate a remote computer network is ... increased, and  
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... the user and the name of the **computer**, and get ... Note: When **detecting** the Doly Trojan Horse using a network ... Trojan v1.5 — Connected.' in a TCP packet with a ...

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Key authors: L Heberlein - J Dickerson - K Levitt - B Mukherjee - R Bhoedjang

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### A Worm Filter Based on the Number of Unacknowledged Requests

We propose a new filter for preventing **computer worms** from ... destination addresses, the destination port, and the protocol number of an out- ... equal to the **threshold**, the worm filter checks the value of the least recently used .... multiple operating systems to run concurrently on a **single physical computer** ...

[www.springerlink.com/index/40x5821r91e6b92k.pdf](http://www.springerlink.com/index/40x5821r91e6b92k.pdf) - Similar  
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threshold selection, similarity detection algorithm and fine analysis. ... monitoring the number of ICMP **destination** unreachable packets generated by routers ..... packets are certain, such as 80, 25 and 21 etc. but the **source** ports of the request ... can find that no single similarity can detect a **worm's** attack ...

[www.springerlink.com/index/y503r28j8036401.pdf](http://www.springerlink.com/index/y503r28j8036401.pdf) - Similar  
by H He - 2006 - Related articles

[More results from www.springerlink.com »](http://www.springerlink.com/)

### Efficient Content-Based Detection of Zero-Day Worms

directed to **multiple destination** hosts. We evaluate our method .... substrings will only be sent to a **single destination** before they .... a fixed cache size of 500 msec, distinct **destination threshold** of 10, sampling .... scanning **worms**, the first external **source** may probe and infect an entire network, ...  
[ieeexplore.ieee.org/iel5/9996/32110/01494469.pdf?arnumber=1494469](http://ieeexplore.ieee.org/iel5/9996/32110/01494469.pdf?arnumber=1494469) - Similar  
by P Akritidis - 2005 - Cited by 24 - Related articles

### WormShield: Fast Worm Signature Generation with Distributed ...

Single substring. Disjoint string tokens. Multiple substrings. Single .... dispersion, where t is a **threshold** for both **source** and **destination** addresses. Fig. ..... ACM Conference on Computer and Communications Security, 2003, pp. ...  
[ieeexplore.ieee.org/iel5/8858/28003/1011097TDSC20071000.pdf](http://ieeexplore.ieee.org/iel5/8858/28003/1011097TDSC20071000.pdf) - Similar  
More results from ieeexplore.ieee.org »

### [ppb] Characterization of Network-Wide Anomalies in Traffic Flows

File Format: PDF/Adobe Acrobat - [View as HTML](#)  
along with the corresponding **threshold** line. Finally, in the bottom .... high-rate flows from a **single source** to a **single destination** which ... **Multiple** instances where a large number of packets are sent to a **single destination** .... Taxonomy of **Computer Worms**. In ACM CCS Workshop on Rapid, Malcode (WORM), October 2003 ...  
[cs-peopie.bu.edu/anukool/pubs/anomalychar-imc04.pdf](http://cs-peopie.bu.edu/anukool/pubs/anomalychar-imc04.pdf) - Similar  
by A Lakhina - 2004 - Cited by 104 - Related articles

### Methods and apparatus for many-to-one connection-rate monitoring ...

If the pre-set **threshold** rate is exceeded by the measured traffic rate, ... This reduces damage because the **worm** or virus is able to spread less .... for example, by programming new **source/destination** traffic streams into a route ... The switching or routing apparatus 102 may be configured with **multiple** ports 202, ...  
[www.faqs.org/patents/app/20090016221](http://www.faqs.org/patents/app/20090016221) - Cached - Similar

### Method and system for counting new **destination** addresses - Patent

Packets of a certain type from a certain **source** are directed to a system that .... Even though the impact of a **single worm** on any given piece of network ... by the fact that the current solutions are based on **multiple components**, ....  $T_i$  and the expected number of new **destinations** is greater than a **threshold** ....

[www.faqs.org/patents/app/20080301812](http://www.faqs.org/patents/app/20080301812) - Cached - Similar

More results from [www.faqs.org](http://www.faqs.org) »

#### [PDF] Simulating Realistic Network Worm Traffic for Worm Warning System ...

File Format: PDF/Adobe Acrobat - View as HTML

addresses that are not associated with a reachable **computer**. In many cases, routers that receive a packet ... the total number of packets for any **source** or **destination** machine or port exceeds a **threshold**  $N$ . DIBS within a config- urable time interval  $\Delta t$  ... to a **single source** machine, **multiple source** machines, and ...

[www.ssfinet.org/Papers/p022-liljenstam.pdf](http://www.ssfinet.org/Papers/p022-liljenstam.pdf) - Similar

by M Liljenstam - 2003 - Cited by 95 - Related articles - All 20 versions

#### [PDF] INTERNATIONAL COMPUTER SCIENCE INSTITUTE GQ: Realizing a System to ...

File Format: PDF/Adobe Acrobat - View as HTML

phenomenon of a **single remote source** engaging in heavy scanning of the telescope's address .... **source**. By matching the **source**'s messages against **multiple scripts**, .... probed the honeypot AND the request is below a configurable **threshold** .... Finally, we present the **worms GQ** captured over the course of a month of ...

[research.microsoft.com/en-us/um/people/wdcul/papers/gq-techreport.pdf](http://research.microsoft.com/en-us/um/people/wdcul/papers/gq-techreport.pdf) - Similar

by W Cui - Related articles - All 10 versions

#### Collaborative Internet Worm Containment

cooperation among **multiple** sites, enabled by trust integration and alert-correlation methodologies; ... It also remembers the set of **source** addresses  $S(i,j)$  and **destination** ... Once  $L(i,j)$  is greater than a local prevalence **threshold**  $T_l$  and the .... scalable wire-speed implementation in a **single worm** sensor. ...

[doi.ieeecomputersociety.org/10.1109/MSP.2005.63](http://doi.ieeecomputersociety.org/10.1109/MSP.2005.63) - Similar

by M Cai - 2005 - Cited by 32 - Related articles - All 10 versions

#### Computer Networks : SweetBait: Zero-hour worm detection and ...

Oct 13, 2006 ... As next-generation **computer worms** may spread within minutes to millions of .... SweetBait is comprised of **multiple** components with distinct roles, .... as well as the **source** and **destination** IP addresses involved in the data exchange. ... When a signature's activity exceeds a configurable **threshold**, ...

[linkinghub.elsevier.com/retrieve/pii/S138912860600243X](http://linkinghub.elsevier.com/retrieve/pii/S138912860600243X) - Similar

by G Portokalidis - 2007 - Cited by 6 - Related articles - All 5 versions

#### Fast detection and visualization of network attacks on parallel ...

aDivision of Computer and Communication Engineering, Korea University, ... A flow is a **single** network connection and can consist of millions of packets. .... So there are **multiple source** and **destination** hosts, where a particular .... The **threshold** for determining DDoS or **worm** attacks is 50 (flows per second). ...

[linkinghub.elsevier.com/retrieve/pii/S0167404808001363](http://linkinghub.elsevier.com/retrieve/pii/S0167404808001363) - Similar

by H Choi - 2008

More results from [linkinghub.elsevier.com](http://linkinghub.elsevier.com) »

#### [PPT] 15-744: Computer Networking

File Format: Microsoft Powerpoint - View as HTML

How to compute prevalence( $w$ ), sources( $w$ ) and destinations( $w$ ) efficiently? ... **multiple** bitmaps each mapped to progressively smaller and smaller portions of the hash space. bitmap recycled if ... counters > dispersion **threshold**? report key as suspicious **worm** ...

Single sensor algorithmics + centralized aggregators ...

[www.cs.cmu.edu/~srini/15-744/S08/lectures/23-worms.ppt](http://www.cs.cmu.edu/~srini/15-744/S08/lectures/23-worms.ppt) - Similar

#### A Multi-Resolution Approach for Worm Detection and Containment

unions of the set of **destinations** contacted over **multiple** time bins. .... and add the

**destination** to the contact set of the **source** ... a single-resolution threshold-based scheme, to detect **worms** with rate greater than  $r$  scans per second using ..... [hal of Computer Security](#), 10:105–136, 2002. .... [www.cs.cmu.edu/~ylxie/papers/dsn06.pdf](http://www.cs.cmu.edu/~ylxie/papers/dsn06.pdf) - Similar  
By V Sekar - Cited by 10 - Related articles - All 13 versions  
More results from [www.cs.cmu.edu](http://www.cs.cmu.edu) »

### Very Fast Containment of Scanning Worms

May 17, 2004 ... **Computer worms** – malicious, self propagating programs ... Without containment, even a **single** breach can lead to a complete internal infection. .... This measures the number of new **destinations** a host can visit in a given period .... Then when a **source** IP crosses the **threshold** for scan detection, ... [www.icsi.berkeley.edu/~nweaver/containment/](http://www.icsi.berkeley.edu/~nweaver/containment/) - Cache! - Similar

### [PDF] Very Fast Containment of Scanning Worms

File Format: PDF/Adobe Acrobat - [View as HTML](#)

for cooperation that enable **multiple** containment devices ... **Computer worms** – malicious, self propagating programs ... each cell (which might encompass just a **single** machine), ..... a **source** IP crosses the **threshold** for scan detection, the ... **worm's** overlay network, informing the **destination worm** ... [www.icsi.berkeley.edu/~nweaver/containment/containment.pdf](http://www.icsi.berkeley.edu/~nweaver/containment/containment.pdf) - Similar  
by N Weaver - Cited by 197 - Related articles - All 18 versions

### [PPT] An active queue management scheme to contain high bandwidth flows

File Format: Microsoft Powerpoint - [View as HTML](#)

Similar to how caches are employed in **computer** memory systems ... Drop rate keeps increasing if flow stays above **threshold**; Tends to punish nonresponsive flows, high-BW flows .... Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ... [www.ece.tamu.edu/~reddy/presentations/security\\_05.ppt](http://www.ece.tamu.edu/~reddy/presentations/security_05.ppt) - Similar

### [PPT] Real-time Traffic monitoring and containment

File Format: Microsoft Powerpoint - [View as HTML](#)

Similar to how caches are employed in **computer** memory systems. Exploit locality ... All parameters: **threshold**, probability and cache size are passed as parameters to the filter .... Infected machine contacting **multiple destinations** (**worm** propagation); **Multiple source** machines targeting a **destination** (DDOS) ... [www.ece.tamu.edu/~reddy/presentations/birmingham.ppt](http://www.ece.tamu.edu/~reddy/presentations/birmingham.ppt) - Similar  
More results from [www.ece.tamu.edu](http://www.ece.tamu.edu) »

### [PDF] Automated Worm Fingerprinting

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**worms** typically spread by a **single** mechanism and did ..... between **multiple** sensors. By contrast, Earlybird has .... If the **source** and **destination** counts exceed the dispersion **threshold**, then the content string is reported. ..... works. to appear in the **Journal of Computer Security**, 2004. ... [www-cse.ucsd.edu/~savage/papers/OSDI04.pdf](http://www-cse.ucsd.edu/~savage/papers/OSDI04.pdf) - Similar  
by S Singh - Cited by 336 - Related articles - All 60 versions

### [PDF] Collaborative Internet\_Worm Containment

File Format: PDF/Adobe Acrobat - [View as HTML](#)

May 6, 2005 ... Cooperation among **multiple** sites, enabled bytrust in- .... (b) The effects of the global prevalence **threshold** show that collaborative monitors can detect sig- .... **source** IP addresses and port numbers, **destination** IP ad- .... robust, scalable wire-speed implementation in a **single** **worm** sensor. ... [gridsec.usc.edu/files/TR/j3hwaSecurity&PMay11Galley.pdf](http://gridsec.usc.edu/files/TR/j3hwaSecurity&PMay11Galley.pdf) - Similar  
by M Cai - 2005 - Cited by 32 - Related articles

### [PDF] Fast Detection of Scanning Worm Infections

File Format: PDF/Adobe Acrobat - [View as HTML](#)

This earlier work used a **single sequential hypothesis test** per host and did ..... a temporary outage at a **destination** network at which **multiple** remote hosts .... that a local host initiates to a given **destination** port to a **threshold**, .... taxonomy of **computer worms**. In Proceedings of the 2003 ACM Workshop on ...  
[www.eecs.harvard.edu/~stuart/papers/scanworm.pdf](http://www.eecs.harvard.edu/~stuart/papers/scanworm.pdf) - Similar  
 by SE Schechter - 2004 - Cited by 102 - Related articles

**[PDF] Analysis of the "SQL Slammer" worm and its effects on Indiana ...**

File Format: PDF/Adobe Acrobat - View as HTML  
 choice of **source** and **destination** IP addresses. In the case of the **source** ... **multiple** hosts, each using a different seed, the effect on the internet .... Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the **reuse threshold**. ...  
[paintsquirrel.ucs.indiana.edu/pdf/SLAMMER.pdf](http://paintsquirrel.ucs.indiana.edu/pdf/SLAMMER.pdf) - Similar  
 by G Travis - Cited by 2 - Related articles - All 6 versions

**[PS] Digging For Worms, Fishing For Answers**

File Format: Adobe PostScript - View as HTML  
 dress accessing 10 different ports on the same **destination** ... to scan **multiple** ports, or **multiple** hosts. .... for the number of connections to cross a particular **threshold**. [12], where a connection consists of a **single source** address ..... ACM Conference on Computer and Communications Secu- ...  
<https://users.cs.jmu.edu/buchhofp/publications/digging.ps> - Similar

**[PDF] The EarlyBird System for Real-time Detection of Unknown Worms**

File Format: PDF/Adobe Acrobat - View as HTML  
 for a popular piece of content with a **single** counter, we believe .... **distinct source-destination** pairs for the signature under consid- eration. The parameter .... lection of the various **threshold** levels as well as the length of the .... warning for internet worms," Department of Computer Science, Univ. of ...  
[www.cs.unc.edu/~jeffay/courses/nids\\$05/signatures/savage-earlybird03.pdf](http://www.cs.unc.edu/~jeffay/courses/nids$05/signatures/savage-earlybird03.pdf) - Similar  
 by S Singh - 2003 - Cited by 99 - Related articles

**[PDF] Worm Detection**

File Format: PDF/Adobe Acrobat - View as HTML  
**destinations**, and **distinct source-destination** ... with frequency greater than a **threshold**.. occurrenceRate. 8. Alerts. As each packet generates **multiple** signatures, ... **Single** packet application identifier strings, eg. "SSH- .... Department of Computer Science, Technical Report CS2003- 0761, August 2003. ...  
[www.cs.unc.edu/~jeffay/courses/nids\\$05/slides/13-Worm-Detection.pdf](http://www.cs.unc.edu/~jeffay/courses/nids$05/slides/13-Worm-Detection.pdf) - Similar  
 by R Fingerprints - Related articles  
 More results from [www.cs.unc.edu](http://www.cs.unc.edu) »

**[PDF] Analysis of the "SQL Slammer" worm and its effects on Indiana ...**

File Format: PDF/Adobe Acrobat - View as HTML  
 inefficient, however a Slammer infected **computer** would try as many as .... choice of **source** and **destination** IP addresses. In the case of the **source** .... Ingress of the **worm** required that only a **single** one of those points ... reusable when the total number of multicast (S,G) entries fall below the **reuse threshold**. ...  
[www.anml.iu.edu/downloads/SLAMMER.pdf](http://www.anml.iu.edu/downloads/SLAMMER.pdf) - Similar  
 by G Travis - Cited by 2 - Related articles - All 6 versions

**[DOC] Survey on Polymorphic Worms**

File Format: Microsoft Word - View as HTML  
 Department of Computer Science, Lamar University .... Unlike Autograph that is based on matching a **single** substring, **multiple** substrings are used .... If the count of **source destination** IP pair exceeds some **threshold** value and number of ...  
[puspamahat.com/Documents/Survey%20on%20Polymorphic%20Worms.doc](http://puspamahat.com/Documents/Survey%20on%20Polymorphic%20Worms.doc) - Similar

**[PDF] Computer and Network Security**

**File Format: PDF/Adobe Acrobat - View as HTML**

Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) – **worm** content is flagged only if counts along all hashes exceed a **threshold** ....

**Single UDP** packet exploits flaw in the **passive** ...

[www.cis.upenn.edu/~cis551/2005/lectures/cis551-08.pdf](http://www.cis.upenn.edu/~cis551/2005/lectures/cis551-08.pdf) - Similar

**[PDF] Computer and Network Security****File Format: PDF/Adobe Acrobat - View as HTML**

Counting every **source** and **destination** is expensive. ... So, do **multiple** different hashes (say 3) – **worm** content is flagged only if counts along all hashes exceed a **threshold** .

Include the **destination** port in the hash of the packet content .... **Single UDP** packet exploits flaw in the **passive** ...

[www.cis.upenn.edu/~cis551/2006/lectures/CIS551-22.pdf](http://www.cis.upenn.edu/~cis551/2006/lectures/CIS551-22.pdf) - Similar

[More results from www.cis.upenn.edu »](#)

**[PDF] Detecting Internet Worms at Early Stage****File Format: PDF/Adobe Acrobat - View as HTML**

Department of **Computer** & **Information Science** & **Engineering** .... **RESET** packets to an external host exceeds a **threshold** value within a period of time, it reports th ... connections to random **destination** addresses from a **single forged source** address. .... An attack session may consist of **multiple** inbound packets. ...

[www.cise.uff.edu/~sgchen/papers/J SAC2005.pdf](http://www.cise.uff.edu/~sgchen/papers/J SAC2005.pdf) - Similar

by S Chen - Cited by 8 - Related articles - All 11 versions

**[PDF] Slowing Down Internet Worms****File Format: PDF/Adobe Acrobat - View as HTML**

always increase as **computer** systems become more and more ... edge routers, which are under a **single** administrative con- ... 0, the probability of **multiple** scan messages hitting the ... a pre-configured **threshold**, the agent randomly drops a min- .... any **source** address in S to any **destination** port in P during ...

[www.cise.uff.edu/~sgchen/papers/icc ds2004.pdf](http://www.cise.uff.edu/~sgchen/papers/icc ds2004.pdf) - Similar

by S Chen - Cited by 52 - Related articles - All 16 versions

[More results from www.cise.uff.edu »](#)

**[PDF] SWORD: Self-propagating Worm Observation and Rapid Detection****File Format: PDF/Adobe Acrobat - View as HTML**

**source** and **destination** addresses and ports. SWORD coalesces the header information ...

**Multiple** attacks on a specific vulnerability, either from a **single** host or from .... detect **worm** connections to exceed the **threshold** within a window. .... Symposium on

Performance Evaluation of **Computer** and **Telecommunication** ...

[ix.cs.oregon.edu/~lijun/pubs/papers/IIC 06sword.pdf](http://ix.cs.oregon.edu/~lijun/pubs/papers/IIC 06sword.pdf) - Similar

by J Li - 2006 - Cited by 1 - Related articles

**[PDF] On the Adaptive Real-Time Detection of Fast-Propagating Network Worms****File Format: PDF/Adobe Acrobat - View as HTML**

First, finding a **single threshold** rate that accommo- ... browser generating **multiple** concurrent connections to fetch embedded objects vs. an SSH client connecting to a server). .... Connection information includes a **source** address, s, a **destination** address, d, .... R. A Taxonomy of **Computer Worms**. In Proceedings ...

[dspace.mit.edu/bitstream/handle/1721.1/34875/MIT-CSAIL-TR-2006-074.pdf?sequence=1](http://dspace.mit.edu/bitstream/handle/1721.1/34875/MIT-CSAIL-TR-2006-074.pdf?sequence=1) -

Similar

by J Jung - 2008 - Cited by 6 - Related articles

**[PDF] Surveillance Detection in High Bandwidth Environments****File Format: PDF/Adobe Acrobat - View as HTML**

spread of failed connections over **multiple** **destinations** ... collected during any large **worm** attack such as Code .... every **single source** which produced connections to N or more **unique destinations** over a ... Since even a low detection **threshold** can drastically ....

Portscans", Seventh ACM Conference on **Computer** ...

[cs.fit.edu/~pkc/fd/related/robertson-disce x03.pdf](http://cs.fit.edu/~pkc/fd/related/robertson-disce x03.pdf) - Similar

by S Robertson - 2003 - Cited by 44 - Related articles

[\[PDF\] Anomalous Payload-based Worm Detection and Signature Generation](#)

File Format: PDF/Adobe Acrobat - View as HTML

distinct **source** and **destination** IPs for each suspicious content, in order to keep the .... score is higher than some **threshold**, we treat this as possible **worm** propagation and .... Most current attack detection systems are constrained to a **single** ingress ... commonly matched as anomalous data among **multiple** sites. ....

[cs.fit.edu/~pkc/id/related/wang05raid.pdf](http://cs.fit.edu/~pkc/id/related/wang05raid.pdf) - Similar  
by K Wang - Cited by 97 - Related articles - All 43 versions

[\[PDF\] Operational Programme "Competitiveness" D3.1 "System Implementation"](#)

File Format: PDF/Adobe Acrobat - View as HTML

A fundamental condition for the system to detect a **worm** is that the ... tiple **destinations**.

The **destinations threshold** used for triggering an alert is ... A **single destination** can be stored within the entry, but for more than one desti- ... **CACHE MULTIPLE DST** Substring has **multiple destinations** stored in extra ta- ...

[www.ics.forth.gr/dcs/Activities/papers/earimp.pdf](http://www.ics.forth.gr/dcs/Activities/papers/earimp.pdf) - Similar

[\[PDF\] Approach to Worm Detection, Early Warning Based on Local Victim ...](#)

File Format: PDF/Adobe Acrobat - View as HTML

**DSC (Destination-Source Correlation)** based on **worm** behavior. The proposed algorithm can fast early warning, ... 2) **SMO (single-input multiple-output)** behavior: if a **worm** ... 2008 International Conference on Computer Science and Software Engineering ... 9)

**Threshold\_Ni**: the **threshold** value of scan times of the ...

[ftp://ftp.computer.org/press/outgoing/proceedings/csse08/data/3336e880.pdf](http://ftp.computer.org/press/outgoing/proceedings/csse08/data/3336e880.pdf) - Similar  
by T Liu

[\[PDF\] Effective Worm Detection for Various Scan Techniques](#)

File Format: PDF/Adobe Acrobat - View as HTML

algorithm for **worm** detection using **multiple parameters** as indicators in Section VII. ... As an end host, a **single computer** can apply various strategies to detect and respond to **worm** attacks. .... mistypes a **destination** address, the **source** address might ... of new victims is greater than the adaptive **threshold** T ...

[rio.ecs.umass.edu/mnlipub/papers/jxla-JCS-wormdetection.pdf](http://rio.ecs.umass.edu/mnlipub/papers/jxla-JCS-wormdetection.pdf) - Similar  
by J Xia - 2006 - Cited by 3 - Related articles

[\[PDF\] The Limits of Global Scanning Worm Detectors in the Presence of ...](#)

File Format: PDF/Adobe Acrobat - View as HTML

**computer security**, **computer worms**, **scanning worms**, **worm** .... itored a **single** unused IP address over the course of 25 days, .... time to random **destinations**, then at time t the overall **worm** .... adjust its **worm** detection **threshold** even higher to prevent .... We could not find a good **source** of data from which to ...

[www1.cs.columbia.edu/~angelos/worm05/worm30-richardson.pdf](http://www1.cs.columbia.edu/~angelos/worm05/worm30-richardson.pdf) - Similar  
by DW Richardson - Cited by 8 - Related articles - All 7 versions

[\[PDF\] Anomalous Payload-based Worm Detection and Signature Generation](#)

File Format: PDF/Adobe Acrobat - View as HTML

distinct **source** and **destination** IPs for each suspicious content, .... score is higher than some **threshold**, we treat this as possible **worm** propagation and .... Most current attack detection systems are constrained to a **single** ingress .... signatures that may be used for filtering **worm** attacks at **multiple** sites. ....

[www1.cs.columbia.edu/~gcreu/papers/raid-cameraav.pdf](http://www1.cs.columbia.edu/~gcreu/papers/raid-cameraav.pdf) - Similar  
by K Wang - Cited by 97 - Related articles - All 43 versions  
More results from [www1.cs.columbia.edu](http://www1.cs.columbia.edu) »

[\[PDF\] DNS-based Detection of Scanning Worms in an Enterprise Network](#)

File Format: PDF/Adobe Acrobat - View as HTML

Oct 20, 2004 ... pose an algorithm based on the **Threshold Random Walk** ... lar cell or span **multiple** cells depending on the scanning ..... and **destination** IP address and **source** and

**destination port number.** ..... able to detect scanning **worm** propagaton in a **single scan**... A taxonomy of **computer worms**. In The First ...  
[www.isoc.org/isoc/conferences/ndss/05/proceedings/papers/whytednswormv2.pdf](http://www.isoc.org/isoc/conferences/ndss/05/proceedings/papers/whytednswormv2.pdf) - Similar  
by D Whyte - Cited by 56 - Related articles

**Detecting Public Network Attacks Using Signatures and Fast Content ...**  
Dec 11, 2008 ... Network **worms** or viruses are a growing threat to the security of public and private ... said first monitoring comprises monitoring **multiple destinations**; ..... An IP header identifies both **source** and **destination** for the payload. ..... Thus when comparing against the **threshold** for **source** addresses, ...  
[www.freepatentsonline.com/y2008/0307524.html](http://www.freepatentsonline.com/y2008/0307524.html) - Similar  
by S Singh - 2008 - Cited by 1 - Related articles - All 5 versions

**Containment of Unknown and Polymorphic Fast Spreading Worms ...**  
Sep 11, 2008 ... A **computer-readable** media tangibly embodying a program of instructions ..... one may also need to have a **maximum threshold**, MAX TIMEOUT, for the waiting time. ... To achieve this, one can either change the **destination IP** address of the ..... To verify this, the **worm source** code was also instructed ...  
[www.freepatentsonline.com/y2008/0222729.html](http://www.freepatentsonline.com/y2008/0222729.html) - Similar  
More results from [www.freepatentsonline.com](http://www.freepatentsonline.com) »

**Symantec Security Response - Glossary - Symantec Corp.**  
This program drops the virus or **worm** onto the victim's **computer**. .... By using **multiple** methods and techniques, blended threats can rapidly spread ... Any files in the **source** folder are copied to the **destination** folder. .... Administrators define **threshold** rules to determine how notifications are to be delivered. ...  
[www.symantec.com/norton/security\\_response/glossary.jsp](http://www.symantec.com/norton/security_response/glossary.jsp) - Cached - Similar

**[PDF] Data Reduction for the Scalable Automated Analysis of Distributed ...**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
volving **multiple destination** ports (multi-vector) and con- sisting of less than 10 contacted ... connection filtering, N connections from a **single source** are recorded, and all subsequent .... **threshold**. The coverage **threshold** defines the number of .... Internet **worm** activity. FIRST Conference on **Computer Security** ...  
[www.eecs.umich.edu/~mibailey/publications/IMC-2005-Final.pdf](http://www.eecs.umich.edu/~mibailey/publications/IMC-2005-Final.pdf) - Similar  
by M Bailey - Cited by 14 - Related articles - All 17 versions

**[PDF] WORM vs. WORM: Preliminary Study of an Active Counter-Attack Mechanism**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
Self-propagating **computer worms** have been terrorizing the .... tem until a certain **threshold** of similar messages are seen on the network before signaling a **worm** presence. A ver- ... **worm** to others. The **source** and **destination** port number of .... **multiple** vectors in a **single** payload, in order to bridge net- ...  
[www.icir.org/vem/worm04/castaneda.pdf](http://www.icir.org/vem/worm04/castaneda.pdf) - Similar  
by F Castaneda - 2004 - Cited by 45 - Related articles

**[PDF] Evaluation of collaborative worm containment on the DETER testbed**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
The data **source** for the background traf- ... components: **worm** detection based on unique **destination** ... emulation experiments are as follows: sending rate **threshold** .... network firewalls facilitates the detection of **single** random scanners. .... ceedings of the 10th ACM conference on **Computer** and com- ...  
[www.usenix.org/event/deter07/tech/full\\_papers/li\\_li\\_1.pdf](http://www.usenix.org/event/deter07/tech/full_papers/li_li_1.pdf) - Similar  
by L Li - Related articles - All 4 versions

**[PDF] Boundary detection and containment of local worm infections**  
File Format: PDF/Adobe Acrobat - [View as HTML](#)  
May 15, 2007 ... When a **threshold** of similar incompletely connec- .... based on those marks using a **single** rule. This keeps .... srip, dstip. **Source** and **destination** IP addresses ... **Multiple** matching: When duplicate unreachable .... ume 4219 of Lecture Notes in

**Computer Science**, pages 165–184. Springer, 2006. ...

[www.usenix.org/events/snul07/tech/full\\_papers/zamboni/zamboni.pdf](http://www.usenix.org/events/snul07/tech/full_papers/zamboni/zamboni.pdf) - Similar  
by D Zamboni - 2007 - Related articles - All 5 versions  
More results from [www.usenix.org](http://www.usenix.org) »

**Handling of DDoS attacks from NAT or proxy devices - US 20090144806**

Jun 4, 2009 ... After taking control of a **computer**, a **worm** often uses the ... To a system on the Internet, the NAT device itself appears to be the **source/destination** for this traffic. ... This **threshold** may be determined, for example, by the number of .... A proxy server may pipeline HTTP messages from **multiple** ...  
[www.patents.com/Handling-DDoS-attacks-NAT-or-proxy-devices/US20090144806/en-US/](http://www.patents.com/Handling-DDoS-attacks-NAT-or-proxy-devices/US20090144806/en-US/) - Similar

**[PDF] PWC: A Proactive Worm Containment Solution for Enterprise Networks**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**Computer worms** (i.e., malicious self-propagating code) are ... slower **worms**. In this paper, we will discuss **single** resolution .... handle **multiple** simultaneous smoking signs raised by different .... Smoking sign **threshold** (unique **destinations/sec**) .... of bogus smoking signs spoofing internal **source** address. ...  
[ist.psu.edu/s2/paper/PWC-SECURECOMM07-CR.pdf](http://ist.psu.edu/s2/paper/PWC-SECURECOMM07-CR.pdf) - Similar  
by YC Jhi - Cited by 1 - Related articles

**Automated detection and containment of worms and viruses into ...**

**Computer worms** rely on active methods of infecting host .... autonomy, dynamic coverage, anomaly detection, **multiple** ... coordination takes place, which means there is no **single** ... **threshold**. The most significant parameters used in our ... **destination-source** infection patterns that can be useful to ...  
[inderscience.metapress.com/index/A6128KM65285R167.pdf](http://inderscience.metapress.com/index/A6128KM65285R167.pdf) - Similar  
by F Palmieri - 2007 - Related articles - All 5 versions

**[PDF] The Cactus Worm: Dynamic Resource Discovery and Allocation in a ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

by allowing, in certain circumstances, the coupling of **multiple** supercomputers to perform .... (**Source**). GridFTP Server. (**Destination**). Cactus Application ... **Worm** thoms. Resource. Selector. Migrator. Computer. Storage ... The length of a time quantum, degradation **threshold**, and number of consecutive violations ...  
[www.globus.org/alliance/publications/papers/lsa-cactus.pdf](http://www.globus.org/alliance/publications/papers/lsa-cactus.pdf) - Similar  
by G Allen - 2001 - Cited by 110 - Related articles - All 46 versions

**[PDF] Hit-List Worm Detection and Bot Identification in Large Networks ...**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

In a protocol graph, a vertex represents a **single** IP ad- .... SMTP: SMTP consists of TCP traffic where the **source** or **destination** port .... false alarm rate for any given detection **threshold** (Section 4.2). In this section, ..... a **worm** would be to consider graphs that involve **multiple** protocols at once, ...  
[www.cert.org/netsa/publications/raids2007-collins-hit-worm-detect-bot-ident-sep07.pdf](http://www.cert.org/netsa/publications/raids2007-collins-hit-worm-detect-bot-ident-sep07.pdf) - Similar  
by MP Collins - 2007 - Cited by 7 - Related articles

**[PDF] Data Mining in Cyber Threat Analysis**

File Format: Microsoft Powerpoint - [View as HTML](#)

For the same **source** (**destination**) IP address, number of unique **destination** ... Detected a distributed windows networking scan from **multiple** **source** locations ... Detected several instances of slapper **worm** that were not identified by SNORT ... the scanning **threshold**) which results in the large memory requirements ...  
[www.cs.umn.edu/research/MINDS/talks/asc2002.ppt](http://www.cs.umn.edu/research/MINDS/talks/asc2002.ppt) - Similar

**[PDF] Predicting the Presence of Internet Worms using Novelty Detection**

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**destination**. This information is exchanged between the networks that form the .... A

**threshold** value is specified from the novelty output of .... An extension of this work would be to correlate the novelty values from **multiple** routers, to be ... The Evolution of Viruses and Worms. Statistical Methods in Computer ...  
arxiv.org/pdf/0705.1288 - Similar  
by E Marais - Related articles - All 4 versions

**[PDF]** A Reputation-based System for the Quarantine of Random Scanning Worms  
File Format: PDF/Adobe Acrobat - View as HTML  
connections increases above a pre-set **threshold**, the cell is considered .... towards the reputation of an attacker, but certainly more than a **single report** .... by the **worm** and the last time an attack reached its intended **destination**. .... R. A Taxonomy of Computer Worms. Proceedings of the 2003 ACM Workshop on ...  
www.cs.rpi.edu/research/pdf/05-01.pdf - Similar  
by SE Coull - Related articles

**[PDF]** SweetBait: Zero-Hour Worm Detection and Containment Using Honeybots  
File Format: PDF/Adobe Acrobat - View as HTML  
SweetBait is comprised of **multiple** components with distinct roles, which can be .... a configurable **threshold**, the sensors will be instructed to filter the offending ... **source** and **destination** IP's information. As a **single** GCC obviously is susceptible .... less whether they are the result of a **computer worm**, ...  
www.cs.vu.nl/~herberth/papers/sweetbait-ir-cs-015.pdf - Similar  
by G Portokalidis - Cited by 5 - Related articles - All 5 versions

**[PDF]** Characterization of Network-Wide Anomalies in Traffic Flows  
File Format: PDF/Adobe Acrobat - View as HTML  
May 19, 2004 ... anomalies (values above the **threshold** represent anomaly detection). The periodicity in the original .... a **single destination** IP, with no dominant **source** IP. Can involve **multiple** ... ion of **destination** IP and port. Can involve **multiple** OD flows and typi.... A Taxonomy of Computer Worms. In ACM ...  
www.cs.bu.edu/techreports/pdf/2004-020-traffic-flow-anomalies.pdf - Similar  
by A Lakhina - Cited by 104 - Related articles - All 19 versions

**[PPT]** Network Worms: Attacks and Defenses  
File Format: Microsoft Powerpoint  
Love Bug worm: \$8.75 billion. Statistics: Computer Economics Inc., Carlsbad, California ....  
Used **multiple** vulnerabilities, propagate to "nearby" sys .... Hash : based on **Source** (or **Destination**); Sample : keep only a sample of the ... bitmaps to tell if number of distinct addresses per hash crosses **threshold** ...  
crypto.stanford.edu/cs155old/cs155-spring06/16-worms.ppt - Similar

**[PDF]** Advanced Polymorphic Worms: Evading IDS by Blending in with Normal ...  
File Format: PDF/Adobe Acrobat - View as HTML  
Mar 27, 2004 ... Normal traffic can provide **worms** with a very good **source** of infor .... that selects an attack vector, generates a set of **destinations**, .... In our example, we presume the **worm** uses a **single** attack vector, an ex .... There has been a number of documented studies that investigated **computer worms** and ...  
www.packetstormsecurity.org/papers/IDS/nids/Advanced-Polymorphic-Worms.pdf - Similar  
by O Kolesnikov - Cited by 45 - Related articles - All 42 versions

**Morris Worm**  
The term **computer** virus was first used in a formal way by Fred Cohen at USC .... Additionally, a **threshold** could be included to check for repeated password ... version of the **worm**, a VAX version, and the **source** code for the vector program. .... The way hosts were added to this list implies that a **single worm** might ...  
wiretap.area.com/Gopher/Library/Techdoc/Virus/inetvirus 823 - Cached - Similar

**[PDF]** Mining Anomalies Using Traffic Feature Distributions  
File Format: PDF/Adobe Acrobat - View as HTML  
anomalies that span **multiple** traffic features. Finally, we tackle the anomaly classification

problem ... found that IP address distributions change during **worm** outbreaks. ... Traffic from **single source** to many **destinations**, e.g., ..... that setting the volume **threshold** low enough to detect the majority. Network ...  
[www.sigcomm.org/sigcomm2005/paper-LakCro.pdf](http://www.sigcomm.org/sigcomm2005/paper-LakCro.pdf) - Similar  
by A Lakhina - Cited by 212 - Related articles - All 23 versions

[PS] **The EarlyBird System for Real-time Detection of Unknown Worms**  
File Format: Adobe PostScript - View as HTML  
or **source-destination** pairs corresponding to signatures that ac- count for high traffic volumes identified ... **multiple** links and the exploit could be fragmented differently ... **(threshold)** number of times, then we instantiate counters to ..... warning for internet worms," Department of Computer Science, Univ. of ...  
[www.cse.ucsd.edu/Dienst/Repository/2.0/Body/ncstrl.ucsd\\_cse/CS2003-0761/postscript](http://www.cse.ucsd.edu/Dienst/Repository/2.0/Body/ncstrl.ucsd_cse/CS2003-0761/postscript) - Similar  
by S Singh - 2003 - Cited by 99 - Related articles

**Autograph: Toward Automated, Distributed Worm Signature Detection**  
In Section 3, we describe the detailed workings of a **single** Autograph monitor: its .... Autograph stores the **source** and **destination** addresses of each inbound .... a new **worm** after the **worm**'s release, and demonstrate that operating **multiple**, .... Note that for a port scanner detection **threshold**  $s = 1$  , the shortest ...  
[www.lib.unb.ca/engineering/usenix/04security/tech/full\\_papers/kim/kim\\_html/autograph.html.html](http://www.lib.unb.ca/engineering/usenix/04security/tech/full_papers/kim/kim_html/autograph.html.html) - Cached - Similar  
by HA Kim - Cited by 367 - Related articles - All 50 versions

(WO/2008/002801) **DETECTION OF FREQUENT AND DISPERSED INVARIANTS**  
A **worm** can be described as a destructive program that automatically .... The **Source** and **Destination** IP Hash values are formed by scrambling the bits and ... or equal to a programmable **threshold** the **source/destination** scaling factors are .... be practiced with other **computer** system configurations, including **single** - ...  
[www.wipo.int/pctdb/en/wo.jsp?wo=2008002801&IA=W02008002801&DISPLAY=DESC](http://www.wipo.int/pctdb/en/wo.jsp?wo=2008002801&IA=W02008002801&DISPLAY=DESC) - Cached - Similar

[PDF] **Automated Worm** Fingerprinting  
File Format: PDF/Adobe Acrobat - View as HTML  
May 8, 2009 ... To maintain a count of unique **source** and **destination** ... easy to envision **worms** for which the invariant content is a string smaller than a **single** ... uses **multiple** bitmaps each mapped to progressively smaller and smaller portions of ... By using a lower dispersion **threshold** one can respond to a **worm** ...  
[www.csd.uoc.gr/~hy558/reports/report\\_worm\\_fingerprinting.pdf](http://www.csd.uoc.gr/~hy558/reports/report_worm_fingerprinting.pdf) - Similar

[PDF] **WormTerminator: An Effective Containment of Unknown and ...**  
File Format: PDF/Adobe Acrobat - View as HTML  
destination or drop the **worm** traffic and raise an alarm to the user. .... have a maximum **threshold**, MAX TIMEOUT, for the waiting ... put **multiple**, and possibly multithreaded, processor cores onto a **single** processor chip so as to fully utilize the avail- .... also instruct the **worm source** code directly and get very ...  
[cs.gmu.edu/~xwanga/Publications/ANCS2006-WormTerminator.pdf](http://cs.gmu.edu/~xwanga/Publications/ANCS2006-WormTerminator.pdf) - Similar  
by S Chen - 2006 - Cited by 2 - Related articles

[PS] **Virus Throttling for Instant Messaging**  
File Format: Adobe PostScript - View as HTML  
Computer **worms** spread over networks, the particular ... called the epidemic **threshold**. In a fully connected net- ... It is assumed that the infection takes place with a **single**. message. .... lay queue, their **destinations** added to the working set ... a message is sent to **multiple** recipients simultaneously. ...  
[www.hpl.hp.com/techreports/2004/HPL-2004-81.ps](http://www.hpl.hp.com/techreports/2004/HPL-2004-81.ps) - Similar  
by MM Williamson - Cited by 19 - Related articles - All 6 versions

[PDF] **On the Detection and Origin Identification of Mobile Worms**

**[PDF]** File Format: PDF/Adobe Acrobat - View as HTML

consisting of the start, duration, **source**, and **destination** .... responding to the same transaction into a **single semantic** .... the long-term average passes a **threshold**, the detector raises .... therefore **multiple reverse paths** lead to that node. (b) Un- like **worms**, non-malicious node contacts do not tend to form ...

[www.cs.jhu.edu/~saraf/WORM07.pdf](http://www.cs.jhu.edu/~saraf/WORM07.pdf) - Similar

by S Saraf - Cited by 2 - Related articles - All 4 versions

**[PDF]** Internet Intrusions: Global Characteristics and Prevalence

File Format: PDF/Adobe Acrobat - View as HTML

Mar 19, 2002 ... distribution of **source IP addresses** of the non-worm intrusions ...

Distribution: Sources and **destinations** of intrusions from .... Horizontal Scan - is a scan from a **single source** of sev- .... **threshold** (1 hour) and the minimum **threshold** for the .... In Journal of Computer Security, 2002. ...

[pages.cs.wisc.edu/~pb/dshield\\_paper.pdf](http://pages.cs.wisc.edu/~pb/dshield_paper.pdf) - Similar

by V Yegneswaran - Cited by 146 - Related articles - All 29 versions

**[PDF]** Worm Detection at Network Endpoints Using Information-Theoretic ...

File Format: PDF/Adobe Acrobat - View as HTML

anomaly detection scheme that detects **computer worms** by .... **Source and destination** ports' Kullback-Leibler divergences at infected endpoints. ... fected with a **single infection** of each **worm** are outlined in Fig. 1. From Fig. .... in Section IV-A) is the **threshold** number of sessions below which **worm** detection is ...

[wisenet.niit.edu.pk/publications/2008/Khayam\\_ICC08.pdf](http://wisenet.niit.edu.pk/publications/2008/Khayam_ICC08.pdf) - Similar

by SA Khayam - 2008 - Related articles

**[PDF]** Reducing Cache Invalidation Overheads in Wormhole Routed DSMs ...

File Format: PDF/Adobe Acrobat - View as HTML

Department of Computer and Information Science, The Ohio State University, Columbus, OH 43210-1277 .... from **multiple destinations** with a **single message**. E-cube. Turn-model **source destination** .... When the **threshold** is reached, more than one i-reserve **worms** are used to cover **destinations** in the columns. ...

[ftp://ftp.cse.ohio-state.edu/pub/communication/papers/lcpp96-dsm-multidest.pdf](http://ftp.cse.ohio-state.edu/pub/communication/papers/lcpp96-dsm-multidest.pdf) - Similar

by D Dai - Cited by 32 - Related articles - All 19 versions

**Entropy Based Evaluation of Communication Predictability in ...**

The author is with the Department of Electrical and Computer ... forms of networking such as packet switching and **worm**- .... accuracy **threshold**, below which prediction should not be attempted. ... of the **single-source destinations**. The events are se- .... analysis of the benefit of tracking **multiple successors** may ...

[jetisy.oxfordjournals.org/cgi/reprint/E89-D/2/469.pdf](http://jetisy.oxfordjournals.org/cgi/reprint/E89-D/2/469.pdf) - Similar

by AK JONES - Related articles - All 7 versions

**[PDF]** On Scalable Attack Detection in the Network

File Format: PDF/Adobe Acrobat - View as HTML

Jan 22, 2004 ... per **source** to count all the ports and **destinations** each **source** talks to. .... the same, except that the **threshold** for detection has to be tuned .... the presence of DoS attacks which are **single or multiple source** .... taxonomy of **computer worms**," in Proceedings of the ACM Workshop of ...

[www.cs.purdue.edu/homes/kompella/publications/tonAttacks.pdf](http://www.cs.purdue.edu/homes/kompella/publications/tonAttacks.pdf) - Similar

by RR Kompella - Cited by 53 - Related articles - All 24 versions

**[PDF]** Scan Detection: A Data Mining Approach

File Format: PDF/Adobe Acrobat - View as HTML

definition of a failed connection and how the **threshold** .... tination port 80) from a computer with a source IP S. ... Source port or 0 for **multiple source** ports dstport. **Destination port** ... **worm**: the host is engaged in its usual P2P activity on .... more than 1 **destination IP** on a **single destination port**. 'TP' ...

[www.siam.org/proceedings/damining/2006/dm06\\_011simong.pdf](http://www.siam.org/proceedings/damining/2006/dm06_011simong.pdf) - Similar

by GJ Simon - Cited by 12 - Related articles - All 16 versions

**[PDF] WormShield: Fast Worm Signature Generation with Distributed ...**File Format: PDF/Adobe Acrobat - [View as HTML](#)

worms with **multiple** disjoint string tokens that are shorter than the **single** substrings used in ..... to that of generating **worm** signatures at a **single** monitor in. Earlybird [32]. .... t is a **threshold** for both **source** and **destination** addresses. ..... Taxonomy of Computer Worms," Proc. 2003 ACM Workshop Rapid ...  
[www.computer.org/portal/cms\\_docs\\_transactions/transactions/tdsc/featured\\_article/q0088.pdf](http://www.computer.org/portal/cms_docs_transactions/transactions/tdsc/featured_article/q0088.pdf) - Similar

**[Paper] Mining Frequency Content of Network Traffic for Intrusion ...**

The last type may be used in detecting traffic patterns when a **worm** or virus ... each connection Compare with a **threshold** value Report attacks Local Frequency ... A pair of **source** and **destination** IP addresses A single protocol or a set of ... is not independent and is possibly originated from one **source computer**, ...  
[www.actapress.com/PDFViewer.aspx?paperId=20400](http://www.actapress.com/PDFViewer.aspx?paperId=20400) - Similar  
 by M Zhou - All 2 versions

**Tools**

Best for: **worm** experiment generation and visualization ... used to generate background traffic in a network as the **multiple** clients keep contacting .... clusters whose traffic is greater than a **threshold** (either in terms of packet number or ... **destination IP**, **source port**, **destination port** or **protocol**) and also in ...  
[www.isi.edu/deter/tools.html](http://www.isi.edu/deter/tools.html) - Cached - Similar

**CPM Dictionary: T | Contingency Planning & Management**

Task Force: Combination of **single** resources assembled for a particular tactical need, ....  
**Threshold**: Number of events needed to satisfy certain criteria; ... includes identities and locations of the **source(s)** and **destination(s)**, ... that stimulates the activity of the payload, such as a virus or **worm**; ...  
[www.contingencyplanning.com/content.aspx?aid=57621](http://www.contingencyplanning.com/content.aspx?aid=57621) - Cached - Similar

**[PDF] Autograph: Toward Automated, Distributed Worm Signature Detection**File Format: PDF/Adobe Acrobat - [View as HTML](#)

in lost productivity owing to interruptions in **computer** and .... Autograph stores the **source** and **destination** addresses of ... port, the suspicious flow pool contains more than a **threshold** number of flows 9. .... 5.1 Single vs. Multiple Monitors. Let us now measure the time required for an Autograph mon- ...  
[www.cs.ucl.ac.uk/staff/B.Karp/autograph-usenixsec2004.pdf](http://www.cs.ucl.ac.uk/staff/B.Karp/autograph-usenixsec2004.pdf) - Similar  
 by HA Kim - Cited by 367 - Related articles - All 50 versions

**[PDF] PROACTIVE WORM PREVENTION BASED ON P2P NETWORKS**File Format: PDF/Adobe Acrobat - [View as HTML](#)

IJCSNS International Journal of Computer Science and Network Security, ... within a local network there will soon be **multiple** ones. .... to use ICMP "Destination Unreachable" messages collected ... **threshold** to judge whether a **worm** is propagating or not. .... proposed P2P overlay network, we developed a **single** ...  
[paper.ijcsns.org/07\\_book/200603/200603C11.pdf](http://paper.ijcsns.org/07_book/200603/200603C11.pdf) - Similar  
 by KAIGUI WU - 2006 - Cited by 1 - Related articles - All 4 versions

**[PDF] Anomaly Detection using similarity in Packets**File Format: PDF/Adobe Acrobat - [View as HTML](#)

Point to Multipoint Traffic from **single source** to many des- .... Counts over a **threshold** provoke GrIDS to report a suspected **worm**. .... to check that the same content propagate not just between **multiple source-destination** pairs, but .... [17] Automatic Extraction of Computer Virus Signatures :Jeffrey O. Kephart ...  
[www.cse.iitb.ac.in/~alodha/SeminarReport.pdf](http://www.cse.iitb.ac.in/~alodha/SeminarReport.pdf) - Similar  
 by A Lodha - Related articles

**[doc] CYBER-CRIMES: A PRACTICAL APPROACH TO THE APPLICATION OF**

## FEDERAL ...

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The attacker is also able to launch attacks against **multiple** targets using the "mdos" ... Using TFN, a **single** attacker can launch an attack from dozens of computers on which .... One of the critiques of this subsection is the \$5000 damage **threshold**. .... He programmed the **worm** to multiply only once on a **computer**, ...

[www.sinrodlaw.com/cybercrime.doc](http://www.sinrodlaw.com/cybercrime.doc) - Similar  
by E.J. Sinrod - 2000 - Cited by 7 - Related articles

## [PDF] NetFlow

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**Source and destination** IP address. - Next hop router's IP address .... **Computer worms** cost European ISPs 123 Million € (The Register,.. May 2004) ...  
[www.ist-lobster.org/publications/deliverables/D4.5a-flow\\_level.pdf](http://www.ist-lobster.org/publications/deliverables/D4.5a-flow_level.pdf) - Similar

## [PDF] Detection of Slow Malicious Worms using Multi-sensor Data Fusion

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outgoing connections to unique **destination** addresses and ports exceed a **threshold** and share detection information with each other to improve false detection rates. .... a **single** slow **worm** detection window (Fig. 6). At the end of a **worm** .... modified blaster **worm** source code [11]. To emulate **multiple** malicious ...  
[www.scs.carleton.ca/~kranakis/Papers/cisda09.pdf](http://www.scs.carleton.ca/~kranakis/Papers/cisda09.pdf) - Similar

## LITMUS: Live Intrusion Tracking via **Multiple** Unsupervised STANNOS

Although this time tested approach is the backbone of current **computer** security systems, ... Figure 3 illustrates a **single** instantiation of a Windows-based LITMUS program, .... the middle, **source** IPs, and the rightmost, **destination** IPs. ... In Figure 6, for instance, LITMUS reveals the Nimda **worm** attempting to gain ...

[www.imagination-engines.com/litmus.htm](http://www.imagination-engines.com/litmus.htm) - Cached - Similar

## 19th Annual Computer Security Applications Conference (ACSAC ...)

Typical IDSs with **multiple** models sum the output of the models and compare to ... They claim that the resulting system was always better than a **threshold**-based system. .... The idea is to throttle the load based on new email **destinations**, ... that nothing much has changed in the past 15 years since the Morris **Worm**, ...

[www.ieee-security.org/Cipher/ConfReports/2004/CR2004-ACSAC.html](http://www.ieee-security.org/Cipher/ConfReports/2004/CR2004-ACSAC.html) - Cached - Similar

## [PDF] Understanding the Various Types of Denial of Service Attack By ...

File Format: PDF/Adobe Acrobat - [View as HTML](#)

**single** product solution, but rather a holistic approach is required to look ... As early as November 3, 1988, Robert Morris Jr. released a **worm** which later ... In this event, often the **source** is a legitimate IP. By spawning **multiple** ... **threshold** to an acceptable number of packets to be processed by the **computer**, ...

[www.cybersecurity.org.my/data/content\\_files/13/72.pdf?diff=1176418012](http://www.cybersecurity.org.my/data/content_files/13/72.pdf?diff=1176418012) - Similar

## [PDF] A Fast Worm Scan Detection Tool for VPN Congestion Avoidance

File Format: PDF/Adobe Acrobat - [View as HTML](#)

is modified with different **threshold** values and the importance of failed connection-attempts is ... of a **worm** an infected **computer** needs to scan many others ... entropy of the **source** and **destination** IP addresses and port .... **Multiple** targets are typical for a **worm**, while a **single** target could be a denial of ser- ...

[www.tik.ee.ethz.ch/~ddosvax/publications/papers/dimva06scan.pdf](http://www.tik.ee.ethz.ch/~ddosvax/publications/papers/dimva06scan.pdf) - Similar  
by A. Wagner - Cited by 1 - Related articles - All 14 versions

## [PPT] ECE 683 Computer Network Design & Analysis

File Format: Microsoft Powerpoint - [View as HTML](#)

TCP connection **threshold**: Use **worm** signature for outbound traffic ... **Single** logical point of failure, potential for congestion. No security ... Attempt **multiple**, redundant routes from the **source** to the **destination** ...

[web.npt.edu/~yczhang/ece683/files/note12.ppt](http://web.npt.edu/~yczhang/ece683/files/note12.ppt) - Similar

[\[PDF\] Qi Zhao](#)File Format: PDF/Adobe Acrobat - [View as HTML](#)

rence across all the nodes in a network are above a certain **threshold**. ... **source/destination** IP addresses ranked by traffic volume to incipient **worm** ... using traditional **single node** mechanisms since the signal is usually too ... and **multiple times** better than the sampling scheme (e.g., Cisco sampled NetFlow). ...

[www.cs.gatech.edu/~qzhao/CV\\_qzhao.pdf](http://www.cs.gatech.edu/~qzhao/CV_qzhao.pdf) - [Similar](#)

[MIT CSAIL Research Abstracts](#)

On the Adaptive Real-Time Detection of Fast-Propagating Network **Worms** ... Finding a **single threshold** rate that accommodates all (or almost all) benign ... a Web browser generating **multiple concurrent** connections to fetch embedded ... on the rate at which the infected hosts initiate connections to new **destinations**. ...

[publications.csail.mit.edu/abstracts/abstracts06/jyjung/jyjung.html](http://publications.csail.mit.edu/abstracts/abstracts06/jyjung/jyjung.html) - [Cached](#) - [Similar](#)

[\[PDF\] Polymorphic Worm Detection Using Structural Information of Executables](#)File Format: PDF/Adobe Acrobat - [View as HTML](#)

entry in the prevalence table, a list of unique **source-destination** IP address .... duced by subgraphs from **multiple** executables, the analyzer compared the list .... **worm**, which is only 376 bytes long and fits into a **single** UDP packet, has a CFG .... In 18th Annual **Computer Security Applications Conference (AC- ...**

[www.auto.tuwien.ac.at/~chris/research/doc/raid05\\_polyworm.pdf](http://www.auto.tuwien.ac.at/~chris/research/doc/raid05_polyworm.pdf) - [Similar](#)  
by C Kruegel - Cited by 116 - Related articles - All 26 versions

[\[PDF\] Large-Scale Collection and Sanitization of Network Security Data ...](#)File Format: PDF/Adobe Acrobat - [View as HTML](#)

not be easily diagnosed from a **single** point in the network. .... ample may be to include hashed **source** and **destination** IP ... security data from **multiple** sources is likely to be of great .... knowledge of **computer worms** and self-propagating mal- .... tal number of such records exceeds a given **threshold**. (The ...

[www.cs.utexas.edu/~shmat/shmat\\_nspw06.pdf](http://www.cs.utexas.edu/~shmat/shmat_nspw06.pdf) - [Similar](#)  
by P Porras - Related articles - All 5 versions

[\[PDF\] Network Intrusion Simulation Using OPNET](#)File Format: PDF/Adobe Acrobat - [View as HTML](#)

observed when a **worm** or virus is spreading itself from an infected **computer** to other computers. .... used in detecting attacks originated from a **single source** IP ... sent to the **destination** PC node through the hub (located at the ... below the **threshold** value 3.0, both connecting IPs are marked as **suspicious**. ...

[www.iiisci.org/Journal/CV\\$sci/pdfs/P602668.pdf](http://www.iiisci.org/Journal/CV$sci/pdfs/P602668.pdf) - [Similar](#)  
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combine address segments using a distance **threshold**. .... a legitimate user mistypes a **destination** address, the **source** address might be marked ...  
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